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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/212,291	12/16/1998	CHINNA PRUDVI	2207/5915	8642
23838 7590 11/12/2008 KENYON & KENYON LLP 1500 K STREET N.W. SUITE 700 WASHINGTON, DC 20005				
EXAMINER				
THAI, TUAN V				
ART UNIT		PAPER NUMBER		
2185				
MAIL DATE		DELIVERY MODE		
11/12/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/212,291

Applicant(s)

PRUDVI ET AL.

Examiner

Tuan V. Thai

Art Unit

2185

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6, 7, 11-16 and 34-36 is/are pending in the application.
- 4a) Of the above claim(s) 5, 8-10, 17-33 and 37 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-4, 6, 7, 11-16 and 34-36 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/16/1998 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

1. This office action is in response to Applicant's communication filed August 14, 2008. This amendment has been entered and carefully considered. Claims 1-4, 6-7, 11-16 and 30-37 are presented for examination. Claims 5, 8-10 and 17-29 have been canceled. Claims 30-37 are newly added. Claims 30-33 and 37 are now canceled.

2. Newly submitted claims 30-33 and 37 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the invention of groups I (claims 1-4, 6-7, 11-16 and 34-36) and group II (claims 30-33 and 37) are related as combination/subcombinations disclosed as usable together in a single combination. In the instant case, the invention of group I has separate utility such as implementation of processing agent having *internal cache with multiple cache lines for storing multiple data lines length of data* could be used in numerous different data storage systems and is not limited for use with processing agent with transaction queue having multiple queue entries, wherein each entry has address field and multiple status fields for storing data interlinked with transactions related with first and second address of the address field of group II. Similarly, the

invention of group II can be used as system for providing access to addressable entities using sequential/non-sequential address structure and is not restricted for use with a processing agent with an internal cache having multiple cache lines wherein each cache line for storing address and multiple data line lengths of data and a transaction queue for transferring data in an external transaction of group I. See M.P.E.P. § 806.05.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 30-33 and 37 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Allowable Subject Matter

3. Claims 1-4, 6-7, 11-16 and 34-36 are allowed.
4. The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach nor suggest, *either alone or in combination*, all the limitations of the amended claims (claims 1 and 11) of the current invention. The prior

arts of record do not teach a processing agent with an internal cache having multiple cache lines wherein each cache line for storing address and multiple data line lengths of data and a transaction queue with multiple queue entries having address and status portions, wherein status portions provided for external transactions related to data portions of respective cache lines (claim 1); nor does the prior arts disclose the transaction queue system comprises a plurality of queue entries wherein each queue entry providing a sequence of external transactions, each external transactions of the sequence related to a single data line and the sequence of external transactions related to a single cache line (claim 11). In light of the foregoing, claims 1 and 11 of the present application are found to be patentable over the prior arts.

Claims 2-4, 6-7, 34-36 and 12-16 further limit the allowable independent claims 1 and 11 respectively. These claims are therefore allowable for the same reason as set forth above.

5. This application is in condition for allowance except for the following formal matters:

The objections to the claims as noted above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on (571)-272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact

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the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TVT/November 07, 2008

/Tuan V. Thai/

Primary Examiner, Art Unit 2185